Filed: September 7, 1994

New claim 102 of the present application claims the same the invention claimed in

claim 69 of the present application and encompassed by claim 18 of the present

application's parent application, U.S. Serial No. 07/580,113, filed September 10, 1990

("Parent Application"). For IgG, the TNF receptor fusion proteins in claims 102, 69, and 18

(claim 18 is directed to IgG or IgM) are identical in meaning. Moreover, the vectors of

claim 103 are encompassed by claim 80 in the present application and claim 27 in the

Parent Application. Accordingly, the present specification and the Parent Application

support the invention of claims 102 and 103.

Claim 102 is fully supported by the present specification. Page 3, line 35 to page 4, line 4

of the present specification discloses "DNA sequences which combine two partial DNA sequences,

one sequence encoding soluble fragments of TNF binding proteins and the other partial sequence

encoding all domains except the first domain of the constant region of the heavy chain of human

immunoglobulin IgG, IgA, IgM, or IgE." With regard to claim 103, on page 4, lines 6-9 it is stated

that the "invention additionally comprises vectors containing the above DNA sequences."

Page 17, beginning on line 18, is describes "expression of proteins which consist of a

soluble fragment of non-soluble TNF-BP and an immunoglobulin fragment, i.e. all domains except

3

Filed: September 7, 1994

the first of the constant region of the heavy chain." Example 11 on page 42 of the present

specification provides data relating to the use of vectors for the expression of chimeric proteins

encoded for by a cDNA fragment encoding the extracellular region of the 55 kDa TNF receptor.

At page 10, lines 19-22, the present specification describes the soluble protein fragment as

extending from nucleotide -185 to 633 or from nucleotide -14 to 633 of the sequence given in

Figure 1. The terms "soluble fragment" and "extracellular region" are used interchangeably in the

specification when referring to the extracellular domain of the TNF receptor polypeptide. See page

3, lines 36 and 37 and page 10, line 20, referring to soluble fragments, and page 42, line 6, referring

to the extracellular region.

Referring to the Chizzonite Declaration at page 3, when referring to an immunoglobulin, the

portion designated as containing all domains except the first domain of the constant region of the

heavy chain of human immunoglobulin IgG consists of the hinge, CH2, and CH3. domains of the

immunoglobulin heavy chain. Likewise, the Fc portion of an IgG heavy chain consists of the CH2

and CH3 domains. Thus, the Fc portion and the hinge region of human immunoglobulin IgG

consists of hinge, CH2, and CH3. Accordingly, the phrase "sequence encoding all domains except

the first domain of the constant region of the heavy chain of human immunoglobulin IgG" as found

4

Serial No. 08/301,857

Filed: September 7, 1994

in the specification is identical in meaning to the phrase "segment having a sequence encoding ... a

Fc portion and hinge region of an IgG heavy chain polypeptide" as found in claims 102 and 103.

Accordingly, every limitation in claims 102 and 103 are fully supported by the

specification.

If any fee is required in connection with the filing of this Amendment, authorization is

hereby given to charge the amount of any such fee to Deposit Account No. 08-2525.

Respectfully submitted,

Attorney for Applicant(s)

John P. Parise

(Reg. No. 34,403)

340 Kingsland Street

Nutley, New Jersey 07110

(201) 235-6326

/JPP

Enclosure (1)

26136

5